

MATHEMATICS MAGAZINE

Index to Volume 33

September-October, 1959 - May-June, 1960

ARTICLES BY TITLE

A Generalization of the Legendre Transformation - R. G. Buschman and N. J. Damaskos	185
A Mathematical Theory of Switching Circuits - William Nemitz and Roy Reeves	1
A Matrix General Solution of Linear Difference Equations with Constant Coefficients - Ralph W. Pfouts and C. E. Ferguson	119
An Iterative Approximation for Finding the N -th Root of a Number - H. W. Gould	61
A Note on Mathematical Notation - H. A. Pogorzelski	24
A Note on p -Like Rings - Adil Yaqub	287
A Note on Space Curves - Major H. S. Subba Rao	162
A Note on the Factorization of Integers - William Edward Christilles	283
A Note on the Well-Ordering of Sets - E. S. Keeping	43
Applications of Unity Ratios - J. G. Luter	30
A Primitive Geometry - Curtis M. Fulton	27
A Simple Proof of Fermat's Last Theorem for $n = 6$ and $n = 10$ - Robert Breusch	279
Bisectors of Supplementary Angles: A New Look - R. Lariviere	25
Comment on a New Look at an Old Problem by Charles E. Wingo Jr. - Jeff Cheeger	223
Comment on A New Look at an Old Problem - George M. Bergman	221
Completion of Seminormed Spaces and the Daniell Process of Extending an Integral - Jesús Gil de Lamadrid	199
Confusion Rings - G. Matthews	282
Curvilinear Projection - Ali R. Amir-Moéz	103
Differential Equations Exhibiting Dimensional Homogeneity - M. S. Krick	99
Division of a Power Series by $(1 - \alpha X)^n$ - D. Mazkewitsch	291
Harmonic Inversion - Sahib Ram Mandan	71
Ideals of Square Summable Power Series - James Rovnyak	265
Invariance of Circle Product - Ali R. Amir-Moéz	35
Learning Theories and The Mathematics Curriculum - Robert E. Horton	79
Note on a Formula of Hermite - L. Carlitz	7
Note on a Paper of Steinberg - H. W. Gould	46
On Infinite Sums of Bessel Functions - Leo Levi	108
On the Origin of Cartesian Symbolism - H. A. Pogorzelski	184
On the Use of the Equivalence Symbol and Parentheses Symbols in Associative Distributive Algebra - H. S. Vandiver	13
On Unequal Partitions of Integers - Iwao Sugai	129
Point to Line Distance - William R. Ransom	218
Polynomials and Functions - Louis O. Kattsoff	157
Receding Galaxies - Lindley J. Burton	161
Relaxation Methods - William Squire	177
Remarks on the Inverse Trigonometric and Hyperbolic Functions of a Complex Variable - L. Pennisi and L. Sjolom	39
Rockers and Rollers - Gerson B. Robison	139
Some Geometric Considerations Related to the Mean Value Theorem - Roger Osborn	271
Some Integrals for Genocchi Numbers - J. M. Gandhi	21
Some Reflective Geometry of the Triangle - D. Moody Bailey	241
Sprays and Cauchy's Distribution - C. A. Wilkins	261
Test for the Rank of a Matrix - Louis Brand	277

The Existence of Integers Less than p Belonging to $ep^{r-1} \pmod{p^r}$ —	
John and Margaret Maxfield	219
The New World of Mathematics — James H. Zant	211
The Osculating Parabola to Any Curve — E. F. Canaday	105
The Practical Man and Mathematician: A Moral Essay — Lyle E. Pursell . . .	33
Unique Differential Ratios and Curvilinear Coordinates — H. Randolph Pyle .	193
Use of Matrices in Teaching Conic Sections — A. R. Amir-Moéz	145

ARTICLES BY AUTHORS

Amir-Moéz, Ali R. — Curvilinear Projection	103
— Invariance of Circle Product	35
— Use of Matrices in Teaching Conic Sections	145
Bailey, D. Moody — Some Reflective Geometry of the Triangle	241
Bergman, George M. — Comment on A New Look at an Old Problem	221
Brand, Louis — Test for the Rank of a Matrix	277
Breusch, Robert — A Simple Proof of Fermat's Last Theorem for $n = 6$ and $n = 10$	279
Burton, Lindley J. — Receding Galaxies	161
Buschman, R. G. and N. J. Damaskos — A Generalization of the Legendre Transformation	185
Canaday, E. F. — The Osculating Parabola to Any Curve	105
Carlitz, L. — Note on a Formula of Hermite	7
Cheeger, Jeff — Comment on a New Look at an Old Problem by Charles E. Wingo Jr.	223
Christilles, William Edward — A Note on the Factorization of Integers	283
Ferguson, C. E. and Ralph W. Pfouts — A Matrix General Solution of Linear Difference Equations with Constant Coefficients	119
Fulton, Curtis M. — A Primitive Geometry	27
Gandhi, J. M. — Some Integrals for Genocchi Numbers	21
Gould, H. W. — An Iterative Approximation for Finding the N -th Root of a Number	61
— Note on a Paper of Steinberg	46
Horton, Robert E. — Learning Theories and The Mathematics Curriculum . . .	79
Kattsoff, Louis O. — Polynomials and Functions	157
Keeping, E. S. — A Note on the Well-Ordering of Sets	43
Krick, M. S. — Differential Equations Exhibiting Dimensional Homogeneity . .	99
Lamadrid, Jesús Gil de — Completion of Seminormed Spaces and the Daniell Process of Extending an Integral	199
Lariviere, R. — Bisectors of Supplementary Angles: A New Look	25
Levi, Leo — On Infinite Sums of Bessel Functions	108
Luter, J. G. — Applications of Unity Ratios	30
Mandan, Sahib Ram — Harmonic Inversion	71
Matthews, G. — Confusion Rings	282
Maxfield, John and Margaret — The Existence of Integers Less than p Belonging to $ep^{r-1} \pmod{p^r}$	219
Mazkewitsch, D. — Division of a Power Series by $(1 - \alpha X)^n$	291
Nemitz, William, and Roy Reeves — A Mathematical Theory of Switching Circuits	1
Osborn, Roger — Some Geometric Considerations Related to the Mean Value Theorem	271
Pennisi, L. and L. Sjoblom — Remarks on the Inverse Trigonometric and Hyperbolic Functions of a Complex Variable	39
Pogorzelski, H. A. — A Note on Mathematical Notation	24
— On the Origin of Cartesian Symbolism	184

Pursell, Lyle E. - The Practical Man and the Mathematician: A Moral Essay	33
Pyle, H. Randolph - Unique Differential Ratios and Curvilinear Coordinates.	193
Ransom, William R. - Point to Line Distance	218
Robinson, Gerson B. - Rockers and Rollers	139
Rovnyak, James - Ideals of Square Summable Power Series	265
Squire, William - Relaxation Methods	177
Subba Rao, Major H. S. - A Note on Space Curves	162
Sugai, Iwao - On Unequal Partitions of Integers	129
Vandiver, H. S. - On the Use of the Equivalence Symbol and Parentheses	
Symbols in Associative Distributive Algebra	13
Wilkins, C. A. - Sprays and Cauchy's Distribution	261
Yaqub, Adil - A Note on p -Like Rings	287
Zant, James H. - The New World of Mathematics	211

PROBLEMS AND QUESTIONS

Contributors

Numbers refer to pages. Bold type indicates a problem solved and solution published; italics, a problem solved but solution not published; ordinary type, a problem proposed.

Andrea, Steve	298	Gehman, Harry M.	113
Andrushkiw, Joseph	110, 300	Gopalan, M. N.	225
Anning, Norman	59, 112, 174	Gould, Henry W.	115
Appuhn, William, E. F.	58, 296	Gwilliam, R.	54
Bankoff, Leon	111, 112, 113, 297	Henrich, Christopher	112, 115
Bergman, George M.	57, 169, 172, 174	Hochster Melvin	109, 167, 169, 172, 173, 174, 174, 296, 298
Bissinger, Barney	55, 169, 225, 296	Howell, J. M.	110, 165, 170
Bloom, Melvin	57	Ivanoff, V. F.	166
Brady, Brian	54	James, Glenn D.	169
Breualt, D. A.	52, 55, 55 , 56, 110 , 113, 166, 169, 173, 174 , 231 , 232, 236, 299, 299, 301 , 302	Karst, Edgar	115
Brooke, Maxey	229 , 232, 236	Kilmoyer, Robert	55, 57 , 226, 297
Brown, J. L. Jr.	168	Klamkin, M. S.	109, 110, 226, 299
Buschman, R. G.	299, 301	Knighten, Lynn	53
Carlitz, Leonard	166 , 169, 169	Konhauser, Joseph D. E.	53, 54, 55, 56
Carver, Walter B.	165	Kravitz, Sam	232
Cheeger, Jeff	167, 169, 172, 174	Kravitz, Sidney	110, 113, 232, 236, 296, 301, 302
Ch'iu, Victor	168 , 173, 174	Krick, M. S.	52, 236
Clawson, J. W.	110 , 114 , 173	Long, Stanley	52
Coffman, Raphael T.	51, 54, 230	Love, D. M.	58
Connell, Joan M.	53	Love, J. B.	57, 110, 302
Court, Nathan Altshiller	165, 174	Meek, B. L.	231
Cunkle, Charles H.	233	Mills, C. N.	175
Demir, Huseyin	51, 54, 55, 56, 110, 112, 112, 113, 114, 165, 173, 225, 228 , 231, 232, 233, 233 , 236, 236, 296, 297, 298, 302	Mills, Philip M.	169
Dernham, Monte	236 , 296	Mitrinovich, D. S.	51, 226
Djokovic, Dragomir	233, 235	Morduchow, M.	55
Ferguson, James C.	53, 56	Moser, Leo	51, 165, 233
Gandhi, J. M.	167	Moser, W. O. J.	301
		Ng, Wahin	236
		O'Connor, Catherine A.	54
		Pai, B. Keshava R.	52, 236

- Parker, F. D. 54, 46, 170, 175
 Pascual, Michael J. 298, 302
 Pinzka, D. F. 296
 Poorbough, S. W. 54
 Reed, John 297
 Said, Abdel S. 54, 55
 Sanders, William M. 167, 175
 Schwartz, Benjamin L. 226, 300
 Shafer, Robert E. 54, 55, 56
 Sidlo, Clarence M. 52, 175, 236
 Silverman, David L. 51, 53, 232
 Sims, W. 54
 Smith, A. 54
 Squire, William 299, 302
 Stygar, Paul 169
 Synnerdahl, Joseph M. 53
 Talbot, Walter R. 54, 55, 56
 Teachout, William B. Jr. 169
 Thebault, Victor 115, 295
 Thomas, Geo. B. Jr. 169
 Thomas, P. D. 53, 53, 55
 Trigg, C. W. 53, 109, 118, 166, 225, 295, 297
 Tyrrell, J. A. 231
 Wang, Chih-yi 109, 113, 165, 169, 172, 175, 298, 299, 299
 Wilder, Ron 175
 Woods, Dale 53, 55, 55, 56, 113, 175, 232, 297, 298, 301
 Woolery, Robert 52

Solutions

The page on which a solution appears is in the parentheses following the number of the problem.

362 (52), 363 (53), 364 (55), 365 (55), 366 (56), 367 (57), 369 (110), (226), 371 (110),
 372 (112), 373 (113), 374 (114), 375 (115), 376 (166), 377 (166), 378 (167), 379 (169),
 380 (172), 381 (173), 382 (174), (297), 383 (228), 384 (231), 385 (231), 386 (232),
 387 (233), 388 (235), 389 (236), 390 (297), 391 (298), 392 (298), 393 (299), 394 (300),
 395 (301), 396 (301)

Quickies

253, 254, 255, 256, 257, (58)
 258, 259, 260, 261, 262, (118)
 263, 264, 265, (175)
 266, 267, (302)

Trickies

34, 35, (176)
 36, 37, 38, (237)

Falsies

16, (237)
 17, (238)

